1	MAGLNCGVSI	ALLGVLLLGA	ARLPRGAEAF	EIALPRESNI	TVLIKLGTPT	LLAKPCYIVI
61	SKRHITMLSI	KSGERIVFTF	SCQSPENHFV	IEIQKNIDCM	SGPCPFGEVQ	LQPSTSLLPT
121	LNRTFIWDVK	AHKSIGLELQ	FSIPRLRQIG	PGESCPDGVT	HSISGRIDAT	VVRIGTFCSN
181	GTVSRIKMQE	GVKMALHLPW	FHPRNVSGFS	IANRSSIKRL	CIIESVFEGE	GSATLMSANY
241	PEGFPEDELM	TWQFVVPAHL	RASVSFLNFN	LSNCERKEER	VEYYIPGSTT	NPEVFKLEDK
301	QPGNMAGNFN	LSLQGCDQDA	QSPGILRLQF	QVLVQHPQNE	SNKIYVVDLS	NERAMSLTIE
361	PRPVKQSRKF	VPGCFVCLES	RTCSSNLTLT	SGSKHKISFL	CDDLTRLWMN	VEKTISCTDH
421	RYCQRKSYSL	QVPSDILHLP	VELHDFSWKL	LVPKDRLSLV	LVPAQKLQQH	THEKPCNTSF
481	SYLVASAIPS	QDLYFGSFCP	GGSIKQIQVK	QNISVTLR <u>TF</u>	APSFRQEASR	QGLTVSFIPY
541	FKEEGVFTVT	PDTKSKVYLR	TPNWDRGLPS	LTSVSWNISV	PRDQVACLTF	FKERSGVVCQ
601	TGRAFMIIQE	QRTRAEEIFS	LDEDVLPKPS	FHHHSFWVNI	SNCSPTSGKQ	LDLLFSVTLT
661	PRTVDLTVIL	IAAVGGGVLL	LSALGLIICC	VKKKKKKTNK	GPAVGIYNGN	INTEMPROPK
721	KFQKGRKDND	SHVYAVIEDT	MVYGHLLQDS	SGSFLQPEVD	TYRPFQGTMG	VCPPSPPTIC
781	SRAPTAKLAT	EEPPPRSPPE	SESEPYTFSH	PNNGDVSSKD	TDIPLLSTQE	PMEPAE

Figure 1

1 gcgcgcaggt gagtgagcca gggcggagcg cagctgcgcc gggcttgggc gcctggggcc 61 gccgctcccc accgtcgttt tccccaccga ggccgaggcg tcccggagtc atggccggcc 121 tgaactgcgg ggtctctatc gcactgctag gggttctgct gctgggtgcg gcgcgcctgc 181 cgcgcgggc agaagctttt gagattgctc tgccacgaga aagcaacatt acagttctca 241 taaagctggg gaccccgact ctgctggcaa aaccctgtta catcgtcatt tctaaaagac 301 atataaccat gttgtccatc aagtctggag aaagaatagt ctttaccttt agctgccaga 361 gtcctgagaa tcactttgtc atagagatcc agaaaaatat tgactgtatg tcaggcccat 421 gtccttttgg ggaggttcag cttcagccct cgacatcgtt gttgcctacc ctcaacagaa 481 ctttcatctg ggatgtcaaa gctcataaga gcatcggttt agagctgcag ttttccatcc 541 ctcgcctgag gcagatcggt ccgggtgaga gctgcccaga cggagtcact cactccatca 601 gcggccgaat cgatgccacc gtggtcagga tcggaacctt ctgcagcaat ggcactgtgt 661 cccggatcaa gatgcaagaa ggagtgaaaa tggccttaca cctcccatgg ttccacccca 721 gaaatgtete eggetteage attgeaaace geteatetat aaaaegtetg tgeateateg 781 agtctgtgtt tgagggtgaa ggctcagcaa ccctgatgtc tgccaactac ccagaaggct 841 tccctgagga tgagctcatg acgtggcagt ttgtcgttcc tgcacacctg cgggccagcg 901 teteetteet caactteaac eteteeaact gtgagaggaa ggaggagegg gttgaatact 961 acatcccggg ctccaccacc aaccccgagg tgttcaagct ggaggacaag cagcctggga 1021 acatggcggg gaacttcaac ctctctctgc aaggctgtga ccaagatgcc caaagtccag 1081 ggatcctccg gctgcagttc caagttttgg tccaacatcc acaaaatgaa agcaataaaa 1141 totacgtggt tgacttgagt aatgagcgag ccatgtcact caccatcgag ccacggcccg 1201 tcaaacagag ccgcaagttt gtccctggct gtttcgtgtg tctagaatct cggacctgca 1261 gtagcaacct caccctgaca tctggctcca aacacaaaat ctccttcctt tgtgatgatc 1321 tgacacgtct gtggatgaat gtggaaaaaa ccataagctg cacagaccac cggtactgcc 1381 aaaggaaatc ctactcactc caggtgccca gtgacatcct ccacctgcct gtgqaqctqc 1441 atgacttete etggaagetg etggtgeeca aggacagget eageetggtg etggtgeeag 1501 cccagaagct gcagcagcat acacacgaga agccctgcaa caccagcttc agctacctcg 1561 tggccagtgc catacccagc caggacctgt acttcggctc cttctgcccg ggaggctcta 1621 tcaagcagat ccaggtgaag cagaacatct cggtgaccct tcgcaccttt gcccccagct 1681 tccgacaaga ggcctccagg cagggtctga cggtgtcctt tataccttat ttcaaagagg 1741 aaggcgtttt cacggtgacc cctgacacaa aaagcaaggt ctacctgagg acccccaact 1801 gggaccgggg cctgccatcc ctcacctctg tgtcctggaa catcagtgtg cccagagacc 1861 aggtggcctg cctgactttc tttaaggagc ggagcggcgt ggtctgccag acagggcgcg 1921 cattcatgat catccaggag cagcggaccc gggctgagga gatcttcagc ctggacgagg 1981 atgtgctccc caagccaagc ttccaccatc acagcttctg ggtcaacatc tctaactgca

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2041 gccccacgag cggcaagcag ctagacctgc tcttctcggt gacacttacc ccaaggactg 2101 tggacttgac tgtcatcctc atcgcagcgg tgggaggtgg agtcttactg ctgtctgccc 2161 tcgggctcat catttgctgt gtgaaaaaga agaaaaagaa gacaaacaag ggcccgctg 2221 tgggtatcta caatggcaac atcaatactg agatgccgag gcagccaaaa aagtttcaga 2281 aagggcgaaa ggacaatgac tcccatgtgt atgcagtcat cgaggacacc atggtatatg 2341 ggcatctgct acaggattcc agcggctcct tcctgcagcc agaggtggac acctaccggc 2401 cgttccaggg caccatgggg gtctgtcctc cctccccacc caccatatgc tccagggccc 2461 caactgcaaa gttggccact gaggagccac ctcctcgctc ccctcctgag tctgagagtg 2521 aaccgtacac cttctcccat cccaacaatg gggatgtaag cagcaaggac acagacattc 2581 ccttactgag cactcaggag cccatggagc cagcagaata acttgatcca ttccagacgc 2641 tttgctgagt ttcataaagc agggcactga gacacccgtc cgtgttccta accagaaatc 2701 ctaaagaaga ggaattatac agaaggaaca gcaggaggtt ttcctggaca ccgccaactt 2761 cacattgctc agtggactca ttctaagggc aagacattga aaatgatgaa ttccaatctg 2821 gatacagtca tgacagctca tgtgctcctc aacttaggct gtgcggttag ccagcctgta 2881 atgagaggag agaggcctga gtcacctagc atagggttgc agcaagccct ggattcagag 2941 tgttaaacag aggcttgccc tcttcaggac aacagttcca attccaagga gcctacctga 3001 ggtccctact ctcactgggg tccccaggat gaaaacgaca atgtgccttt ttattattat 3061 ttatttggtg gtcctgtgtt atttaagaga tcaaatgtat aaccacctag cacttttcac 3121 ctgacttagt aataactcat actaactggt ttggatgcct gggttgtgac ttctactgac 3181 cgctagataa acgtgtgcct gtcccccagg tggtgggaat aatttacaat ctgtccaacc 3241 agaaaagaat gtgtgtttt gagcagcatt gacacatatc tgctttgata agagacttcc 3301 tgatteteta ggteggtteg tggttatece attgtggaaa tteatettga ateceattgt 3361 cctatagtcc tagcaataag agaaatttcc tcaagtttcc atgtgcggtt ctcctagctg 3421 cagcaatact ttgacattta aagagaaatt tagagaatat tctcatcctc taaaaatgtt 3481 taaatatata ccaaacagtg gccccctgca ttagttttct gttgccactg caacctatta 3541 cttggtagct taaaaacaac acattagctt atagtcctgg ggatcagaat tccaaaatgg 3601 atgtccctga atgaaaatca aggtgtcagc agagctgtgc tccttctgaa ggctctaggg 3661 agaageeggt teettgeeat tteaagette tagaggetgg etgeatteee aggeteeagt 3721 ggctggtcaa gcttttctca catggcatca ctgtgacact ggccctccca cttccctctt 3781 tgacttacaa agcccaccag gaagatccag gataatctct ccatctaaag ttccttcatc 3841 atcctggaag agccttttgc catgcaagac aacatagcca caggtgggga ttaggaccag 3901 aacatetttg gggtgetgtt attetgeeta ceacacette etgecaetga eteceaeagg 3961 agaggetaca aaatgatetg gegeacaggg atgttttgtt tagettgegg actetaacae 4021 ttaaaaaaaa acccagatca gaagatctgg ccatgctggg gctcacattc tcacctagca 4081 acaactggct ggagctgggc accagetetg cetttagaag gggtgtecae tteaccaggt

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4141 caccacagee cacactaege cetateaett cecacaatga ggetgagtgt ttgtttetae 4201 tgatcaatgc ccctgcaggt tgcatttatt gtaatgaaaa agaaagactg ggattaatct 4261 ctaatcaggt gagtagacca tgagaccaat gtgtgctcac attaccettt ttctttttt 4321 tettttett tttetttt tttttaatgt gagacaggat eteattetgt tgeetagget 4381 ggagtgcagt ggcgcaatct cggctcactg caacctctgc ctcctgggct caagcaattc 4441 teccacetea geeteecaaa tagetgggat caetggeaca aaccaceatg eccagetaat 4501 tttgtatttt ttgtagagac agggtttcac catgttgccc aggctggtct caacctcctg 4561 ggctcaagca atcetectge eteggeetee caaagtgetg ggattacaga tgtgageeae 4621 cgcatccagc cccacaccct catttatacc aattacctgc ccagtaactg tggacttttg 4681 cttcctcacc cctgctctga tctggaagga gagggattat gttatagctt gtcagcacag 4741 tcccaagttc aatatttctg cggcaaaaac ttccttcaaa aaataaatgt acttcattgt 4801 attcaatgaa ttcaccttgg aaatgcaccg cctcaacttg ttcacatggc ataaatgaaa 4861 ggaattttat agteteetaa atggegtgta etgeaagaee tettgaacae ttteeagagg 4921 ataggatatt taagtcatgc ccttgcgtcc tatggcacct ttcccttctg aaagtctggt 4981 tectgeecag tgaccettgg cettgtgage egagatgetg accetgeata aagggeeaaa 5041 ggagggctgc ggcttccttc cctcactgaa gagcccttat ttgaattcac tgtgtggagc 5101 cctagccctc cattctcgac attccccaac ctcccagccc cttccaagca ggactaggtg 5161 ccctgcattc cacccaaggt gggattggcc ttccttaggc tggctacttg tcaccatcac 5221 cgacatcact gttgcctgca aggacaccac gtggccattt tccttcaact gagggctcaa 5281 aactcctgga caagttgctg gctcctgaga ccagtatttc ctggagctgt gcctcagtga 5341 aggggcccag cctgaggaac cctggctctt ttctttaaag cccaggcccc acttacgtaa 5401 aacatttcag ggtcactgga aacagtgaag tgccatttgt tgaagcctac tgcatgccag 5461 cccactgctc atccacgtgg tctgccatgc ctacgaggaa ggccagcgca tgcaggactg 5521 gtctctaatg ctgtggtcat tgcacagaag ggaaaggtct caaggaagag tcaactggaa 5581 caagcacaag cccaccggac atggccttgg taaaggttag cagactggtg tgtgtggatc 5641 tgcagtgctt cactggaaat aatttattca ttgcagatac tttttaggtg gcattttatt 5701 catttcctgt gctttaaata aacaaatgta ccaaaaaaca agtatcaagc tgtttaagtg 5761 cttcggctac ttgtcccctg gttcagtaga ggccccggtt tcccagttgt tgactgtgac 5821 aggctcagca tgggctcagc agatgctgtc ttaatttgtg gatgatacag aaagccaggc 5881 tttgggatac aagttctttc ctcttcattt gatgccgtgc actgtgtgaa gcagatgttt 5941 ttgtccggaa ataaaaataa tagtcttgga gtctcgcc

Figure 2

